### NAVAL AIR WARFARE CENTER, TRENTON NJ

## **Ground Water Treatment Facility Operations and Maintenance**

### **MONTHLY REPORT**

	MAY, 1999	9
Total volume of ground water pumped for	the month (gal):	1,888,100_
Average Flow Rate (gpm)		52.5
Average Flow From Well	West Ditch Well	0
15BR 15.3	36BR	0
20BR 10.5 41BR 10	Other	N/A
41BR 10 45BR 5		
48BR 12.8		
Time Operational (hours) 599		
Time Operational (percent) 91%		
Days in month 26/31	System was re-sta	arted on 5/4/99 at 1300 hrs.
Shut Downs		
Date/time started	Total Hours	Cause
5/24/99 14:00	19:15	Power failure due to electrical storm.
5/30/99 7:00	41:00	High inlet tepmperature to cat-ox
Sample Dates for lab analyses (results att)	11-May-99	
Figure/Table of Field GC data attached		
Estimated pounds of contaminants treated		\$ man 4
For month:	Total (lb.):	
Vinyl Chloride 42.86	798.75	
Dichloroethene 165.47	4823.149	
Trichloroethene 65.55	1645.12	
Total VOCs removed 273.88	7267	
Maintenance Notes (such as carbon chang	ge outs, etc.) Non	e

## FOSTER WHEELER ENVIRONMENTAL CORPORATION

Naval Air Warfare Center, Trenton NJ May, 1999 - Field Data Summary

Date	Sample ID	Sample Location	Vinyl Chloride (ug/L)	cis-1,2-DCE (ug/L)	trans-1,2-DCE (ug/L)	Trichloroethene (ug/L)	Iron (mg/L)
			GC	GC	GC	GC	Field Kit
5/11/99	01-MAY1199-01	System Influent	3,100	11,400	59	4,100	
5/11/99	06-MAY1199-01	Post Air Stripper	9,100 ND	11,400 ND	ND <sup>1</sup>	4,100 ND	
5/11/99	08-MAY1199-01	Post Carbon Unit 1	ND	110	ND	ND	
5/11/99	10-MAY1199-01	System Effluent	ND	ND	ND	ND ND	
	10 100 01	Oystoni Lindent	140	140	ND ND	NO	
5/18/99	01-MAY1899-01	System Influent	2,600	10,700	38	4,300	
5/18/99	06-MAY1899-01	Post Air Stripper	ND	ДИ	ND		
5/18/99	08-MAY1899-01	Post Carbon Unit 1	ND	5	ND	ND	
5/18/99	10-MAY1899-01	System Effluent	ND	ND	ND	ND	
		<u> </u>					
5/21/99	01-MAY2199-01	System Influent	2,700	10,600	36	4,600	1.0
5/21/99	06-MAY2199-01	Post Air Stripper	ND	ND	ND	ND	1.0
5/21/99	08-MAY2199-01	Post Carbon Unit 1	ND	ND	ND	ND	
5/21/99	10-MAY2199-01	System Effluent	ND	ND	ND	ND	
5/25/99	01-MAY2599-01	System Influent	3,100	11,000	41	4,300	
5/25/99	06-MAY2599-01	Post Air Stripper	ND	ND	ND	ND	
5/25/99	08-MAY2599-01	Post Carbon Unit 1	ND	ND	ND	ND	
5/25/99	10-MAY2599-01	System Effluent	ND	ND	ND	ND	
5/28/99	01-MAY2899-01	System Influent	2,100	8,600	31	3,500	
5/28/99	06-MAY2899-01	Post Air Stripper	ND	ND	ND		
5/28/99	08-MAY2899-01	Post Carbon Unit 1	ND	ND	6	ND	
5/28/99	10-MAY2899-01	System Effluent	ND	ND	ND	ND	
	ELSA Discharg	e Limit	TTO Limit is 100 pp	ob from Sampling F	Point 10		5.0

Flow:	Total gallons of treated effluent for this month:  Average flow in gpm: 52.50	1,888,100		ND: Not Detected		
pH:	Influent pH meter has been removed.	Avg. effluent pH;	8.99	Pounds removed Vinyl Chloride:	This month: 42.86	Total to date: 798.75
				Cis-1,2-DCE: Trans-1,2-DCE: TCE:	164.82 0.65 65.55	4,818.75 4.399 1,645.12
Votes:				Total organics removed, lbs	273.87	7,267.0

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

10MAY119901

(uL)

FOSTER WHEELER ENVIR. Contract: Lab Name: CHEMTECH Group: 10MAY119 Location: Site: Project No.: 11682NJ Lab Sample ID: O72637 Matrix: (soil/water) WATER Lab File ID: N05830.D 5.0 (g/mL) ML Sample wt/vol: Date Received: 5/12/99 (low/med) Level: Date Analyzed: 5/14/99 100 % Moisture: not dec. Dilution Factor: 1.0 ID: 0.53 (mm) GC Column: RTX624

(uL)

Soil Extract Volume:

#### Concentration Units:

Soil Aliquot Volume:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
74-87-3	Chloromethane	1.8	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	1.5	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
79-00-5	1,1,2-Trichloroethane	0.9	U
127-18-4	Tetrachloroethene	0.9	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
	TOTAL TTO	0	

### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

10MAY119901

Lab Name: CHEMTEC	Н		Contract:	FOSTER WHEELE	ER ENVIR.	
Project No. 1168		Site:	Location:		Group:	10MAY1
Matrix: (soil/water)	WATER	<del>-</del>		Lab Sample ID:	O72637	
Sample wt/vol:	5.0	(g/mL) ML		Lab File ID	: N05830.D	
Level: (low/med)				Date Received:	5/12/99	-
% Moisture: not dec.	100			Date Analyzed:	5/14/99	
GC Column: RTX	624	ID: 0.53	(mm)	Dilution Factor:	1.0	-
Soil Extract Volume:		_(uL)		Soil Aliquot Volume:		(uL)
Number TICs found:	1	_	Concentration (ug/L or			_

CAS Number	Compound Name	1	Est. Conc.	Q
1.	Acetone	12.71	4	J
2.				
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# ANALYSIS REPORT

### INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

10MAY119901

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.:

SAS No.:

SDG No.: 11682

Matrix (soil/water): WATER

Lab Sample ID: 72637S

Level (low/med): LOW

Date Received: 05/12/99

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	U	Q	М
7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-97-6 7440-02-0 7782-49-2 7440-22-4	Antimony Arsenic Barium	8.8 6.0 139 1.0 1.0 33.0 310 2.0 0.20 1.0 4.0 1.0 7.0 43.3	ממממממ מממשמשן		
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Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



# LABORATORY REPORT

#### REPORT OF ANALYSES

FOSTER WHEELER ENVIRONMENTAL

ONE OXFORD VALLEY

SUITE 200

LANGHORNE, PA 19047-

Attn: MEG WATSON

PROJECT # 11682 NJ

SAMPLE NUMBER- 72637

DATE SAMPLED- 05/11/99

DATE RECEIVED- 05/12/99

DELIVERED BY- FEDEX

Page 1 of 1

SAMPLE ID- 10MAY119901

TIME SAMPLED- 1140 SAMPLER- CLIENT

TIME RECEIVED- 0930

RECEIVED BY- AD SAMPLE MATRIX- WW

DATE: 05/20/99

ANALYSIS

DATE

ANALYSIS METHOD

TOTAL SUSPENDED SOLIDS EPA 160.2 05/17

TIME BY

RESULT UNITS

EPA 160.2 05/17/99 HSP 3.00 mg/L

LABORATORY DIRECTOR

110 Route 4

Englewood, New Jersey 07631

Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9 Barnegat, New Jersey 08005 Phone: (609) 698-0199 Fax: (609) 698-0910 1A

**VOLATILE ORGANICS ANALYSIS DATA SHEET** 

Contract:

SAMPLE NO.

FOSTER WHEELER ENVIR.

01MAY119901

Lab Name: CHEMTECH Group: 10MAY119 Site: Location: Project No.: 11682NJ

Lab Sample ID: O72638 Matrix: (soil/water) WATER

Lab File ID: N05831.D Sample wt/vol: 5.0 (g/mL) ML

Date Received: 5/12/99 (low/med) Level:

Date Analyzed: 5/14/99 % Moisture: not dec. 100

Dilution Factor: 1.0 ID: 0.53 (mm) GC Column: RTX624

(uL) Soil Aliquot Volume: (uL) Soil Extract Volume:

#### Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	89	
75-01-4	Vinyl Chloride	3000	E
74-83-9	Bromomethane	1.7	U
74-87-3	Chloromethane	1.8	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	53	
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	29	
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
56-23-5	Carbon Tetrachloride	1.5	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1800	Е
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
79-00-5	1,1,2-Trichloroethane	0.9	U
127-18-4	Tetrachloroethene	0.9	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	0.9	U
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
	TOTAL TTO	4971	

### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

01MAY119901

Lab Name: CHEMTEC	Н		Contract:	FOSTER WHEELER ENVIR.
Project No. 1168		Site:	Location:	Group: 10MAY119
Matrix: (soil/water)	WATER	_		Lab Sample ID: O72638
Sample wt/vol:	5.0	(g/mL) ML		Lab File ID: N05831.D
Level: (low/med)		_		Date Received: 5/12/99
% Moisture: not dec.	100	_		Date Analyzed: 5/14/99
GC Column: RTX	524	ID: 0.53	(mm)	Dilution Factor: 1.0
Soil Extract Volume:		_(uL)		Soil Aliquot Volume: (uL)
			Concentratio	n Units:

Number TICs found:	0	(ug/L or ug/Kg)	ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Acetone	12.70	4	J
2.				
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Location:

SAMPLE NO.

01MAY119901DL

Group: 10MAY11990

FOSTER WHEELER ENVIR. Contract: Lab Name: CHEMTECH

Project No.: 11682NJ

Lab Sample ID: O72638DL Matrix: (soil/water) WATER

Site:

Lab File ID: N05838.D Sample wt/vol: 5.0 (g/mL) ML

Date Received: 5/12/99 Level: (low/med)

Date Analyzed: 5/15/99 % Moisture: not dec. 100

Dilution Factor: 250.0 ID: 0.53 (mm) GC Column: RTX624

(uL) (uL) Soil Aliquot Volume: Soil Extract Volume:

### Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	460	UD
75-01-4	Vinyl Chloride	1600	D
74-83-9	Bromomethane	420	UD
74-87-3	Chloromethane	450	UD
75-00-3	Chloroethane	510	UD
107-02-8	Acrolein	1300	UD
75-69-4	Trichlorofluoromethane	320	UD
75-35-4	1,1-Dichloroethene	140	UD
75-09-2	Methylene Chloride	180	UD
156-60-5	trans-1,2-Dichloroethene	170	UD
107-13-1	Acrylonitrile	1300	UD
75-34-4	1,1-Dichloroethane	93	UD
67-66-3	Chloroform	210	UD
71-55-6	1,1,1-Trichloroethane	220	UD
56-23-5	Carbon Tetrachloride	380	UD
71-43-2	Benzene	210	UD
107-06-2	1,2-Dichloroethane	230	UD
79-01-6	Trichloroethene	2200	D
78-87-5	1,2-Dichloropropane	250	UD
75-27-4	Bromodichloromethane	150	UD
110-07-3	2-Chloroethyl Vinyl Ether	1300	UD
10061-01-5	cis-1,3-Dichloropropene	33	UD
108-88-3	Toluene	250	UD
10061-02-6	trans-1,3-Dichloropropene	58	UD
79-00-5	1,1,2-Trichloroethane	230	UD
127-18-4	Tetrachloroethene	230	UD
124-48-1	Dibromochloromethane	250	UD
108-90-7	Chlorobenzene	230	UD
100-41-4	Ethylbenzene	230	UD
75-25-2	Bromoform	130	UD
79-34-5	1,1,2,2-Tetrachloroethane	280	UD
	TOTAL TTO	3800	D

# ANALYSIS REPORT

### INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

01MAY119901

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11682

Matrix (soil/water): WATER

Lab Sample ID: 72638S

Level (low/med): LOW

Date Received: 05/12/99

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М
7782-49-2 7440-22-4	Antimony Arsenic Barium Beryllium Cadmium Chromium Copper Iron Lead Mercury Nickel Selenium Silver Thallium Zinc	5.8 6.0 148 1.0 1.0 1.0 56.4 687 2.0 0.20 1.0 4.0 1.0 7.0 46.5	מממממם מממשמש		
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Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

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# LABORATORY REPORT

#### REPORT OF ANALYSES

FOSTER WHEELER ENVIRONMENTAL

ONE OXFORD VALLEY

SUITE 200

LANGHORNE, PA 19047-

Attn: MEG WATSON

PROJECT # 11682 NJ

SAMPLE NUMBER- 72638

DATE SAMPLED- 05/11/99

DATE RECEIVED- 05/12/99

DELIVERED BY- FEDEX

Page 1 of 1

ANALYSIS

TOTAL SUSPENDED SOLIDS

.

DATE: 05/20/99

SAMPLE ID- 01MAY119901

TIME SAMPLED- 1152 SAMPLER- CLIENT

TIME RECEIVED- 0930

RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS

METHOD

DATE

TIME BY

RESULT UNITS

EPA 160.2 05/17/99

HSP

4.00 mg/L

LABORATORY DIRECTOR

110 Route 4 Englewood, Ne

Englewood, New Jersey 07631

Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9 Barnegat, New Jersey 08005 Phone: (609) 698-0199 Fax: (609) 698-0910